

WHAT IS CLAIMED IS:

1. An image forming apparatus comprising:

a plurality of image carriers;

5 a plurality of transfer means, each of which is provided corresponding to each of said plurality of image carriers and contacted under pressure with each of said plurality of image carriers through an intermediate transfer body or recording material by the application of pressure;

10 a plurality of driving means for driving said plurality of image carriers to rotate; and

control means for controlling said driving means, wherein said control means changes a control method for said driving means according to the kind of
15 image so that said transfer means will be selectively operated according to the kind of image.

2. The image forming apparatus according to claim 1 further comprising

an intermediate transfer body,

20 wherein said plurality of transfer means are fixed to said plurality of image carriers through said intermediate transfer body by the application of pressure.

3. The image forming apparatus according to claim 1 wherein said control means controls said driving means to
25 drive said image carriers according to correction information based on a mechanical resonance frequency of the driving systems of said image carriers corresponding to

the kind of image.

4. The image forming apparatus according to claim
3 wherein the correction information is correction
information for feed-forward control, and said control
5 means controls said driving means to perform feed-forward
control of said image carriers based on the correction
information.

5. The image forming apparatus according to claim
1 further comprising

10 storage means for storing plural pieces of
correction information in association with kinds of images,
wherein said control means reads the correction
information from said storage means according to the kind
of image, and controls said driving means to drive said
15 image carriers based on the correction information.

6. An image forming apparatus comprising:

a plurality of image carriers;

an intermediate transfer body;

a plurality of transfer means for transferring
20 toner images formed on said plurality of image carriers
onto said intermediate transfer body, each of said
plurality of transfer means being provided corresponding to
each of said plurality of image carriers and contacting
under pressure with each of said plurality of image
25 carriers through said intermediate transfer body by the
application of pressure;

driving means for driving said intermediate

transfer body; and

control means for controlling said driving means,
wherein said control means changes a control
method for said driving means according to the kind of
5 image so that said transfer means will be selectively
operated according to the kind of image.

7. The image forming apparatus according to claim
6 further comprising

an intermediate transfer body

10 wherein said plurality of transfer means are fixed
to said plurality of image carriers through said
intermediate transfer body by the application of pressure.

8. The image forming apparatus according to claim
6 wherein said control means controls said driving means to
15 drive said image carriers according to correction
information based on a mechanical resonance frequency of
the driving systems of said image carriers corresponding to
the kind of image.

9. The image forming apparatus according to claim
20 8 wherein the correction information is correction
information for feed-forward control, and said control
means controls said driving means to perform feed-forward
control of said image carriers based on the correction
information.

25 10. The image forming apparatus according to
claim 6 further comprising
storage means for storing plural pieces of

correction information in association with kinds of images,

wherein said control means reads the correction information from said storage means according to the kind of image, and controls said driving means to drive said image carriers based on the correction information.

11. A control method for a color image forming apparatus comprising the steps of:

selectively actuating transfer means according to the kind of image;

reading correction information related to control of the rotational speed of each image carrier from storage means according to the kind of image;

controlling the rotational speed of the image carrier based on the read correction information; and

transferring a toner image of a specific color on the image carrier onto an intermediate transfer body at a controlled rotational speed.

12. The control method for a color image forming apparatus according to claim 11, wherein the correction information related to control of the rotational speed is correction information for feed-forward control of each image carrier performed by the driving mechanism, the correction information including a frequency component based on a mechanical resonance frequency of the driving system of the image carrier.